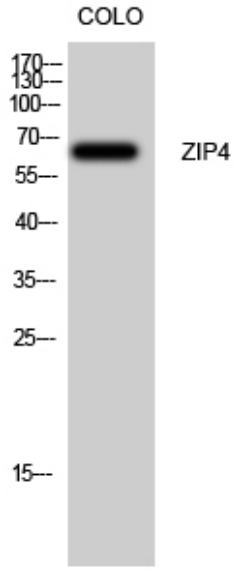
ZIP4 Polyclonal Antibody

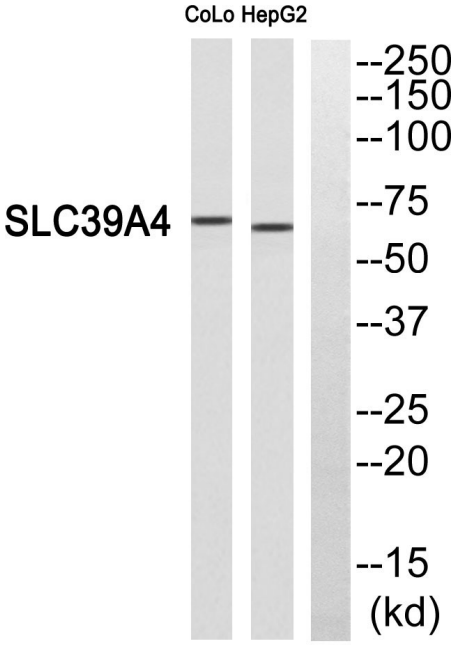
Catalog No	YP-Ab-04274
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	SLC39A4
Protein Name	Zinc transporter ZIP4
Immunogen	The antiserum was produced against synthesized peptide derived from human SLC39A4. AA range:431-480
Specificity	ZIP4 Polyclonal Antibody detects endogenous levels of ZIP4 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SLC39A4; ZIP4; Zinc transporter ZIP4; Solute carrier family 39 member 4; Zrt- and Irt-like protein 4; ZIP-4
Observed Band	68kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Recycling endosome membrane ; Multi-pass membrane protein . Colocalized with TFRC in the recycling endosomes. Cycles between endosomal compartments and the plasma membrane in response to zinc availability.
Tissue Specificity	Highly expressed in kidney, small intestine, stomach, colon, jejunum and duodenum.
Function	disease:Defects in SLC39A4 are the cause of acrodermatitis enteropathica zinc-deficiency type (AEZ) [MIM:201100]. AEZ is a rare autosomal recessive disease caused by the inability to absorb sufficient zinc. The clinicals features are growth retardation, immune system dysfunction, alopecia, severe dermatitis, diarrhea and occasionally mental disorders. All these manifestations are reversible with zinc supplementation. Without zinc therapy this disease is fatal.,function:Plays an important role in cellular zinc homeostasis as a zinc transporter. Regulated in response to zinc availability.,similarity:Belongs to the ZIP transporter (TC 2.A.5) family.,subcellular location:Colocalized with TFRC in the recycling endosomes. Cycles between endosomal compartments and the plasma membrane in response to zinc availability.,tissue specificity:Highly expressed in kidney, small intestine, stomach, colon

Background	This gene encodes a member of the zinc/iron-regulated transporter-like protein (ZIP) family. The encoded protein localizes to cell membranes and is required for zinc uptake in the intestine. Mutations in this gene result in acrodermatitis enteropathica. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2013],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of Colo cells using ZIP4 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western blot analysis of SLC39A4 Antibody. The lane on the right is blocked with the SLC39A4 peptide.